

- 57 -

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

- 5 (A) NAME: THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE SECRETARY, DEPARTMENT OF HEALTH AND HUMAN SERVICES ET AL.
- (B) STREET: C/O: THE OFFICE OF TECHNOLOGY TRANSFER, NIH, SUITE 325, 6011 EXECUTIVE BOULEVARD
- 10 (C) CITY: ROCKVILLE
- (D) STATE OR PROVINCE: MARYLAND
- (E) COUNTRY: UNITED STATES OF AMERICA
- (F) POSTAL CODE: 20852

(ii) TITLE OF INVENTION: MUTATED RAS PEPTIDES FOR GENERATION OF CD8⁺ CYTOTOXIC T LYMPHOCYTES

(iii) NUMBER OF SEQUENCES: 13

(iv) COMPUTER READABLE FORM:

- 20 (A) MEDIUM TYPE: FLOPPY DISK
- (B) COMPUTER: IBM PC COMPATIBLE
- (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- (D) SOFTWARE: PATENTIN RELEASE #1.0, VERSION #1.30B

(vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: TO BE ASSIGNED
- (B) FILING DATE: 17-APR-1997

(vii) PRIOR APPLICATION DATA:

- 25 (A) APPLICATION NUMBER: US 08/635,344
- (B) FILING DATE: 19-APR-1996

(viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: BROWN, KATHRYN M.
- (B) REGISTRATION NUMBER: 34,556
- 30 (C) REFERENCE/DOCKET NUMBER: 2026-4230PC

(ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: (212) 758-4800
- (B) TELEFAX: (212) 751-6849

- 58 -

o (2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 13 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: unknown
5 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

10 Lys Leu Val Val Val Gly Ala Gly Gly Val Gly Lys Ser
1 5 10

o (2) INFORMATION FOR SEQ ID NO:2:

- 15 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 13 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: unknown
(D) TOPOLOGY: linear

20 (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Lys Leu Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1 5 10

25 (2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: unknown
30 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

35 Lys Leu Val Val Val Gly Ala Asp Gly Val
1 5 10

- 59 -

o (2) INFORMATION FOR SEQ ID NO:4:

5 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: linear

10 (ii) MOLECULE TYPE: peptide

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Lys Leu Val Val Val Gly Ala Val Gly Val
1 5 10

(2) INFORMATION FOR SEQ ID NO:5:

20 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 10 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: linear

25 (ii) MOLECULE TYPE: peptide

20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Lys Leu Val Val Val Gly Ala Cys Gly Val
1 5 10

25 (2) INFORMATION FOR SEQ ID NO:6:

30 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 9 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: linear

35 (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Tyr Lys Leu Val Val Val Gly Ala Val
1 5

- 60 -

° (2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 42 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: linear

5

(ii) MOLECULE TYPE: other nucleic acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

10 TAT AAA CTT GTG GTA GTT GGA GCT GAT GGC GTA GGC AAG AGT 42
Tyr Lys Leu Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1 5 10

(2) INFORMATION FOR SEQ ID NO:8:

15 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 42 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: linear

20

(ii) MOLECULE TYPE: other nucleic acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

25 TAT AAA CTT GTG GTA GTT GGA GCT TGT GGC GTA GGC AAG AGT 42
Tyr Lys Leu Val Val Val Gly Ala Cys Gly Val Gly Lys Ser
1 5 10

25

(2) INFORMATION FOR SEQ ID NO:9:

30 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 42 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: linear

30

(ii) MOLECULE TYPE: other nucleic acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

35

- 61 -

TAT AAA CTT GTG GTA GTT GGA GCT GTT GGC GTA GGC AAG AGT 42
Tyr Lys Leu Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1 5 10

5 (2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: unknown
(D) TOPOLOGY: linear

10 (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Tyr Lys Leu Val Val Val Gly Ala Val Gly Val Gly Lys Ser
1 5 10

15 (2) INFORMATION FOR SEQ ID NO:11:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 10 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: unknown
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Tyr Leu Val Val Val Gly Ala Asp Gly Val
1 5 10

25 (2) INFORMATION FOR SEQ ID NO:12:

- 30 (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 14 amino acids
(B) TYPE: amino acid
(C) STRANDEDNESS: unknown
(D) TOPOLOGY: linear

35 (ii) MOLECULE TYPE: peptide

- 62 -

° (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

10 Tyr Lys Leu Val Val Val Gly Ala Asp Gly Val Gly Lys Ser
1 5 10

5 (2) INFORMATION FOR SEQ ID NO:13:

10 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 14 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: linear

15 (ii) MOLECULE TYPE: peptide

20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

25 Tyr Lys Leu Val Val Val Gly Ala Cys Gly Val Gly Lys Ser
1 5 10

30

35